

US EPA ARCHIVE DOCUMENT

Semi-Annual Report Of UST Performance Measures End Of Fiscal Year 2009 – As Of September 30, 2009

Where does EPA get the performance data?

Twice each year, EPA collects data from states and territories regarding underground storage tank (UST) performance measures and makes the data publicly available. This data includes information such as the number of active and closed tanks, releases reported, cleanups initiated and completed, facilities in compliance with UST requirements, and inspections. EPA compiles the data and presents it in table format for all states, territories, and Indian country.

What are the UST performance measures?

The most current definitions for the UST performance measures are available on EPA's Web site www.epa.gov/oust/cat/camarchv.htm under **Definitions**.

What is in the end of fiscal year (FY) 2009 report?

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How did the UST program's performance compare with its goals?

FY 2009 UST Program Goal	FY 2009 UST Program Performance
Complete 12,250 cleanups, including 30 in Indian country	Exceeded the FY 2009 goal by completing 12,944 cleanups, including 49 in Indian country
Achieve a significant operational compliance rate of 65 percent	Exceeded the FY 2009 goal by achieving a significant operational compliance rate of 66.4 percent
Decrease newly-confirmed releases to fewer than 9,000	Exceeded the FY 2009 goal by decreasing newly-confirmed releases to 7,168

What other highlights are included in the end of FY 2009 report?

- There are 611,449 active USTs (at approximately 223,000 sites) which are regulated by the UST regulations
- Since the 1984 inception of the UST program, 1,718,833 substandard USTs have been closed
- Of the 488,496 leaks reported since the beginning of the UST program, 388,331 (or 79.5 percent) have been cleaned up, leaving a backlog of 100,165 remaining to be cleaned up
- 95,675 on-site inspections at federally-regulated UST facilities were conducted between October 2008 and September 2009; of those:
 - 95,296 were conducted by states, territories, and third-party inspectors
 - 379 were conducted by EPA and credentialed tribal inspectors in Indian country

Where can I find performance data from previous years?

EPA's Web site www.epa.gov/oust/cat/camarchv.htm provides the most current report, as well as historical reports beginning with FY 1988, the first year reports were developed. Reports are listed beginning with the most recent first.

For more information, contact Matt Young, EPA's Office of Underground Storage Tanks, at young.matthew@epa.gov or 703-603-7143.

UST Corrective Action Measures for End of Year FY 2009 (Cumulative as of September 30, 2009)

Region / State	Number of Active Tanks	Number of Closed Tanks	Confirmed Releases		Cleanups Initiated	Cleanups Completed		Cleanups Backlog	Emergency Responses
			Actions This Year	Cumulative		Actions This Year	Cumulative		
ONE									
CT	8,576	24,174	84	2,672	2,617	57	1,817	855	120
MA	10,410	23,647	53	6,202	6,165	208	5,792	410	5,218
ME	3,049	12,771	57	2,500	2,477	61	2,464	36	570
NH	3,143	11,358	38	2,396	2,396	78	1,667	729	683
RI	1,612	7,751	5	1,324	1,324	21	1,078	246	27
VT	3,133	5,604	23	2,008	1,993	50	1,302	706	311
SUBTOTAL	29,923	85,305	260	17,102	16,972	475	14,120	2,982	6,929
TWO									
NJ	15,764	58,627	165	10,431	9,575	150	6,270	4,161	55
NY	27,348	89,435	924	27,225	27,205	1,038	24,896	2,329	1,334
PR	4,501	5,708	12	1,042	822	7	486	556	190
VI	144	278	2	24	23	6	13	11	14
SUBTOTAL	47,757	154,048	1,103	38,722	37,625	1,201	31,665	7,057	1,593
THREE									
DC	667	3,210	22	881	866	34	691	190	264
DE	1,411	7,073	55	2,529	2,431	89	2,293	236	415
MD	8,337	33,506	214	11,281	11,036	273	10,700	581	339
PA	24,125	62,587	201	14,880	14,782	554	11,814	3,066	28
VA	19,455	59,442	157	11,437	11,337	240	10,908	529	63
WV	5,589	19,616	82	3,210	3,022	84	2,302	908	10
SUBTOTAL	59,584	185,434	731	44,218	43,474	1,274	38,708	5,510	1,119

Definitions of confirmed releases, cleanups initiated, and cleanups completed are available on OUST's Web site at <http://www.epa.gov/oust/cat/camarchv.htm>.

UST Corrective Action Measures for End of Year FY 2009 (Cumulative as of September 30, 2009)

Region / State	Number of Active Tanks	Number of Closed Tanks	Confirmed Releases		Cleanups Initiated	Cleanups Completed		Cleanups Backlog	Emergency Responses
			Actions This Year	Cumulative		Actions This Year	Cumulative		
FOUR									
AL	18,602	29,646	103	11,398	11,303	176	10,038	1,360	448
FL	25,636	104,938	169	25,955	15,891	709	11,624	14,331	204
GA	29,821	47,353	286	12,319	12,044	567	10,536	1,783	2
KY	11,786	37,570	277	14,275	14,241	403	12,268	2,007	188
MS	8,680	22,839	97	7,031	6,932	76	6,721	310	128
NC	27,806	66,809	234	24,555	22,808	574	19,085	5,470	658
SC	11,861	32,620	151	9,319	8,956	262	6,358	2,961	99
TN	16,636	36,191	211	13,962	13,851	245	13,450	512	69
SUBTOTAL	150,828	377,966	1,528	118,814	106,026	3,012	90,080	28,734	1,796
FIVE									
IL	21,955	64,985	330	24,358	22,834	901	18,089	6,269	1,884
IN	13,614	37,004	172	8,949	8,633	405	6,735	2,214	294
MI	19,529	68,059	183	21,818	21,360	203	12,655	9,163	82
MN	14,694	28,191	208	10,416	10,327	284	9,684	732	680
OH	23,067	43,080	821	27,866	27,064	850	25,046	2,820	417
WI	14,920	66,577	110	18,801	18,437	282	16,592	2,209	385
SUBTOTAL	107,779	307,896	1,824	112,208	108,655	2,925	88,801	23,407	3,742

Definitions of confirmed releases, cleanups initiated, and cleanups completed are available on OUST's Web site at <http://www.epa.gov/oust/cat/camarchv.htm>.

UST Corrective Action Measures for End of Year FY 2009 (Cumulative as of September 30, 2009)

Region / State	Number of Active Tanks	Number of Closed Tanks	Confirmed Releases		Cleanups Initiated	Cleanups Completed		Cleanups Backlog	Emergency Responses
			Actions This Year	Cumulative		Actions This Year	Cumulative		
SIX									
AR	9,251	20,690	30	1,448	1,142	36	1,152	296	24
LA	12,243	32,386	291	3,898	3,898	363	2,724	1,174	831
NM	3,958	12,461	18	2,542	1,879	41	1,785	757	87
OK	10,742	26,204	97	4,720	4,702	148	4,320	400	148
TX	53,094	115,071	289	25,813	24,530	639	23,130	2,683	582
SUBTOTAL	89,288	206,812	725	38,421	36,151	1,227	33,111	5,310	1,672
SEVEN									
IA	7,873	22,052	45	5,977	5,646	136	4,613	1,364	250
KS	6,898	20,165	48	4,917	4,790	180	3,385	1,532	123
MO	9,717	30,225	157	6,530	6,256	221	5,385	1,145	382
NE	6,825	14,513	39	6,147	4,705	112	4,404	1,743	14
SUBTOTAL	31,313	86,955	289	23,571	21,397	649	17,787	5,784	769
EIGHT									
CO	7,893	21,570	162	7,221	7,126	183	6,455	766	43
MT	3,247	12,390	19	2,999	2,620	53	1,944	1,055	47
ND	2,136	7,114	6	834	821	10	820	14	4
SD	3,035	6,961	29	2,411	2,410	114	2,424	-13	22
UT	3,972	13,018	52	4,456	4,415	81	4,053	403	5
WY	1,889	7,904	19	2,710	1,659	77	954	1,756	70
SUBTOTAL	22,172	68,957	287	20,631	19,051	518	16,650	3,981	191

Definitions of confirmed releases, cleanups initiated, and cleanups completed are available on OUST's Web site at <http://www.epa.gov/oust/cat/camarchv.htm>.

UST Corrective Action Measures for End of Year FY 2009 (Cumulative as of September 30, 2009)

Region / State	Number of Active Tanks	Number of Closed Tanks	Confirmed Releases		Cleanups Initiated	Cleanups Completed		Cleanups Backlog	Emergency Responses
			Actions This Year	Cumulative		Actions This Year	Cumulative		
NINE									
AS	16	52	0	8	7	0	7	1	1
AZ	7,050	20,859	34	8,523	7,999	180	7,557	966	0
CA	36,899	126,894	148	43,156	43,156	1,066	31,222	11,934	0
CNMI	68	28	1	10	9	3	9	1	0
GU	264	435	0	138	138	1	113	25	0
HI	1,622	5,345	34	1,989	1,909	48	1,755	234	0
NV	3,781	6,985	15	2,457	2,456	26	2,288	169	52
SUBTOTAL	49,700	160,598	232	56,281	55,674	1,324	42,951	13,330	53
TEN									
AK	1,191	6,428	48	2,300	2,245	50	1,825	475	47
ID	3,492	10,448	18	1,424	1,392	28	1,276	148	12
OR	5,896	25,978	62	7,183	6,933	143	6,045	1,138	56
WA	9,900	36,346	43	6,442	6,382	69	4,464	1,978	39
SUBTOTAL	20,479	79,200	171	17,349	16,952	290	13,610	3,739	154

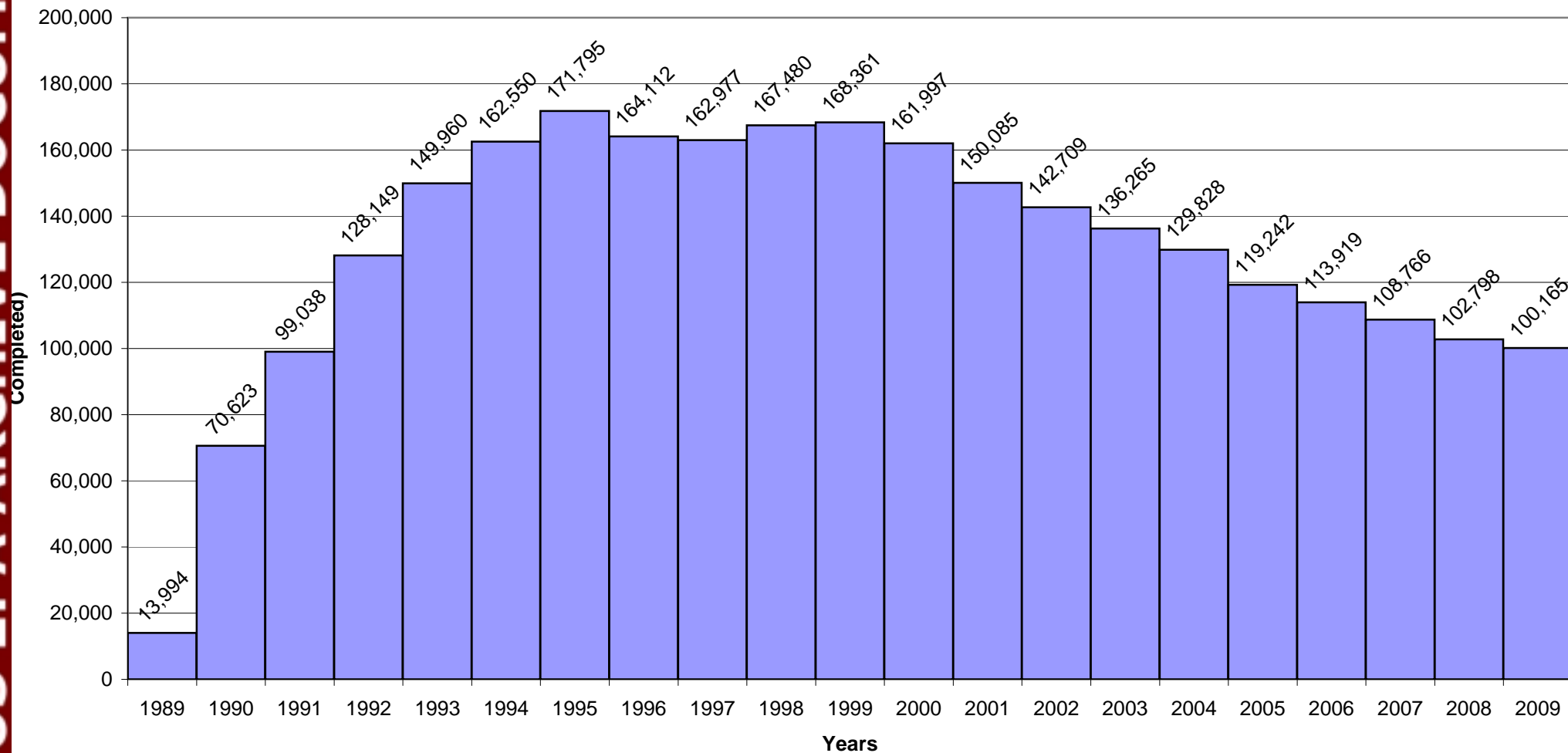
Definitions of confirmed releases, cleanups initiated, and cleanups completed are available on OUST's Web site at <http://www.epa.gov/oust/cat/camarchv.htm>.

UST Corrective Action Measures for End of Year FY 2009 (Cumulative as of September 30, 2009)

Region / State	Number of Active Tanks	Number of Closed Tanks	Confirmed Releases		Cleanups Initiated	Cleanups Completed		Cleanups Backlog	Emergency Responses
			Actions This Year	Cumulative		Actions This Year	Cumulative		
REGIONAL CORRECTIVE ACTIONS FOR INDIAN COUNTRY									
REGION 1	8	5	0	0	0	0	0	0	0
REGION 2	132	28	0	6	2	1	5	1	0
REGION 3	0	0	0	0	0	0	0	0	0
REGION 4	64	61	0	13	13	0	11	2	2
REGION 5	423	994	2	220	213	4	154	66	0
REGION 6	318	254	2	55	53	2	50	5	1
REGION 7	91	93	0	20	20	2	11	9	0
REGION 8	553	1,949	0	444	421	16	284	160	5
REGION 9	701	1,291	10	246	190	17	182	64	0
REGION10	336	987	4	175	171	7	151	24	3
SUBTOTAL	2,626	5,662	18	1,179	1,083	49	848	331	11
	Number of Active Tanks	Number of Closed Tanks	Confirmed Releases		Cleanups Initiated	Cleanups Completed		Cleanup Backlog	Emergency Responses
			Actions This Period	Cumulative		Actions This Period	Cumulative		
NATIONAL TOTAL	611,449	1,718,833	7,168	488,496	463,060	12,944	388,331	100,165	18,029

Definitions of confirmed releases, cleanups initiated, and cleanups completed are available on OUST's Web site at <http://www.epa.gov/oust/cat/camarchv.htm>.

UST National Backlog: FY 1989 Thru End Of Year FY 2009



**UST Compliance Measures
for End-of-Year FY 2009 (as of 9/30/09)**

Region/ State	% in Significant Operational Compliance with Release Prevention Regulations	% in Significant Operational Compliance with Release Detection Regulations	% of UST Facilities in SOC w/UST Release Detection and Release Prevention	Region/ State	% in Significant Operational Compliance with Release Prevention Requirements	% in Significant Operational Compliance with Release Detection Regulations	% of UST Facilities in SOC w/UST Release Detection and Release Prevention
ONE				FOUR			
*CT	83%	67%	62%	AL	95%	87%	85%
MA	**DNA	**DNA	**DNA	FL	92%	89%	88%
ME	82%	63%	59%	GA	81%	72%	66%
NH	72%	73%	56%	KY	57%	59%	40%
*RI	85%	78%	70%	MS	70%	72%	58%
*VT	81%	84%	75%	NC	71%	70%	62%
SUBTOTAL	81%	71%	63%	SC	85%	85%	76%
				TN	85%	84%	75%
TWO				SUBTOTAL	81%	78%	71%
NJ	89%	92%	84%	FIVE			
NY	75%	66%	58%	*IL	79%	75%	60%
PR	76%	60%	54%	IN	80%	81%	67%
VI	92%	85%	77%	*MI	80%	56%	48%
SUBTOTAL	80%	74%	66%	MN	62%	71%	57%
				OH	86%	69%	65%
THREE				*WI	83%	82%	71%
DC	78%	78%	65%	SUBTOTAL	79%	71%	61%
DE	82%	87%	77%	SIX			
MD	78%	80%	70%	AR	62%	71%	52%
PA	89%	85%	76%	LA	85%	83%	68%
VA	76%	67%	58%	NM	67%	77%	57%
WV	68%	67%	54%	OK	70%	69%	56%
SUBTOTAL	81%	77%	67%	TX	78%	75%	68%
				SUBTOTAL	76%	75%	64%

These compliance rates indicate the percentage of recently-inspected facilities found to be in significant operational compliance (SOC) with federal UST requirements from 10/1/08 through 9/30/09. In accordance with EPA guidelines, states are allowed to report based on requirements more stringent than the federal SOC requirements. Connecticut, Illinois, Michigan, Rhode Island, Vermont, and Wisconsin indicated they had done so, as described in the next page. Furthermore, states have different approaches to targeting inspections. For example, some states focus inspections on suspected non-compliant facilities, while other states conduct random inspections.

* States reporting based on requirements more stringent than the federal SOC requirements.

** DNA = Data Not Available N/A = Not Applicable

**UST Compliance Measures
for End-of-Year FY 2009 (as of 9/30/09)**

Region/ State	% in Significant Operational Compliance with Release Prevention Regulations	% in Significant Operational Compliance with Release Detection Regulations	% of UST Facilities in SOC w/UST Release Detection and Release Prevention
SEVEN			
IA	78%	80%	64%
KS	61%	91%	56%
MO	86%	97%	84%
NE	66%	61%	47%
SUBTOTAL	74%	83%	65%
EIGHT			
CO	87%	78%	70%
MT	93%	94%	87%
ND	81%	76%	66%
SD	64%	80%	57%
UT	83%	82%	71%
WY	91%	94%	86%
SUBTOTAL	84%	83%	72%
NINE			
AS	**DNA	**DNA	**DNA
AZ	85%	86%	84%
CA	75%	82%	66%
CNMI	92%	100%	92%
GU	64%	68%	65%
HI	99%	94%	92%
NV	89%	86%	78%
SUBTOTAL	78%	83%	70%

Region/ State	% in Significant Operational Compliance with Release Prevention Requirements	% in Significant Operational Compliance with Release Detection Regulations	% of UST Facilities in SOC w/UST Release Detection and Release Prevention
TEN			
AK	83%	76%	67%
ID	73%	60%	47%
OR	92%	90%	85%
WA	80%	66%	58%
SUBTOTAL	82%	72%	64%
INDIAN COUNTRY			
REGION 1	**DNA	**DNA	**DNA
REGION 2	**DNA	**DNA	**DNA
REGION 3	**N/A	**N/A	**N/A
REGION 4	85%	70%	60%
REGION 5	76%	54%	52%
REGION 6	91%	79%	73%
REGION 7	64%	73%	64%
REGION 8	85%	82%	73%
REGION 9	60%	70%	48%
REGION10	66%	66%	50%
SUBTOTAL	74%	71%	59%
NATIONAL TOTAL			
National Total	79.3%	76.3%	66.4%

These compliance rates indicate the percentage of recently-inspected facilities found to be in significant operational compliance (SOC) with federal UST requirements from 10/1/08 through 9/30/09. In accordance with EPA guidelines, states are allowed to report based on requirements more stringent than the federal SOC requirements. Connecticut, Illinois, Michigan, Rhode Island, Vermont, and Wisconsin indicated they had done so, as described in the next page. Furthermore, states have different approaches to targeting inspections. For example, some states focus inspections on suspected non-compliant facilities, while other states conduct random inspections.

* States reporting based on requirements more stringent than the federal SOC requirements.

** DNA = Data Not Available N/A = Not Applicable

States With Requirements More Stringent Than The Federal Significant Operational Compliance Requirements

CONNECTICUT

Release Prevention: Operation and Maintenance of Cathodic Protection

- Lining not allowed.

Release Detection: Testing

- Tanks and piping require weekly and monthly monitoring for releases and records must be available (for 2 of the most recent consecutive months and for 8 of the last 12 months).
- Statistical Inventory Reconciliation (SIR) not allowed as a stand-alone method.

ILLINOIS

Release Detection: Testing

- Owner/operator must produce records within 30 minutes of arrival of inspector.

MICHIGAN

Release Detection

- Inventory control is required when using an automatic tank gauge (ATG).

RHODE ISLAND

Release Prevention: Operation and Maintenance

- All tanks and piping are required to be tightness tested after a repair. No exemptions.

Release Prevention: Operation and Maintenance of Cathodic Protection

- Impressed current cathodic protection systems are required to be tested every 2 years.
- Sacrificial anode systems are required to be tested every 3 years.

Release Detection: Testing

- Records required for the past 36 months.
- Inventory control is required for all tanks (single-walled and double-walled).
- The automatic tank gauge (ATG) has to be checked monthly and have an annual test conducted.
- Tightness testing schedule is different than the federal requirement; it depends on the type of tank.
 - o Tank tightness must be performed on all single walled tanks.
 - o Tightness tests must be performed every 5 years after the installation of the ATG until the tank has been installed for 20 years and every 2 years thereafter.
 - o UST systems upgraded with interior lining and/or cathodic protections are not required to have an ATG for 10 years after the upgrade. Tank tightness testing must be conducted annually during these 10 years. After 10 years, an ATG is required and tank tightness testing must be performed every 5 years until the tank has been installed for 20 years and then every 2 years thereafter. The results of all tightness tests shall be maintained for 3 years beyond the life of the facility.
- Groundwater or vapor monitoring not accepted as a method of leak detection.
- SIR not accepted.

VERMONT

Release Prevention: Operation and Maintenance of Cathodic Protection

- Lining not allowed unless with impressed current.

Release Detection: Method Presence and Performance Requirements

- Weekly monitoring required for tank and piping. Records must be available for the two most recent consecutive months and for 8 of the last 12 months.

Release Detection: Testing

- Inventory control /Tank Tightness Testing (TTT) not allowed as a release detection method after 6/30/98.
- Manual Tank Gauge (MTG) allowed alone up to 550 gallons; 551-1,000 gallons, MTG with annual TTT.

WISCONSIN**Release Prevention: Operation and Maintenance of Cathodic Protection**

- Require annual cathodic protection test.

Release Prevention: Spill Prevention

- Require USTs to be equipped with overfill prevention equipment that will operate as follows (NFPA 30-2.6.1.4 – 2000 and 2003 version):
 - Automatically shut off the flow of liquid into the tank when the tank is no more than 95% full;
 - Alert the transfer operator when the tank is no more than 90% full by restricting the flow of liquid into the tank or triggering the high-level alarm; and,
 - Other methods approved by the authority having jurisdiction.

Release Detection: Testing

- Require NFPA 30A09.2.1 (2000 and 2003 versions). Accurate daily inventory records shall be maintained and reconciled for all liquid fuel storage tanks for indication of possible leakage from tanks or piping. The records shall be kept on the premises or shall be made available to the authority having jurisdiction for the inspection within 24 hours of a written or verbal request. The records shall include, as a minimum and by product, daily reconciliation between sales, use, receipts, and inventory on hand. If there is more than one storage system serving an individual pump or dispensing device for any product, the reconciliation shall be maintained separately for each system.

Release Detection: Deferment

- No exclusion or deferment for "remote" emergency generator tanks.

Other

- Require annual permit to operate that includes verification of financial responsibility.

**Inspection/Delivery Prohibition Actions
for End-of-Year FY 2009 (as of 9/30/09)**

Region/ State	Number of On-Site Inspections Conducted	Number of Delivery Prohibition Actions
ONE		
CT	1,598	7
MA	553	0
ME	1,130	5
NH	373	11
RI	190	0
VT	383	6
SUBTOTAL	4,227	29
TWO		
NJ	1,758	31
NY	3,099	0
PR	460	0
VI	30	0
SUBTOTAL	5,347	31
THREE		
DC	29	12
DE	157	2
MD	1,429	10
PA	3,234	70
VA	2,282	0
WV	769	3
SUBTOTAL	7,900	97
FOUR		
AL	3,199	151

Region/ State	Number of On-Site Inspections Conducted	Number of Delivery Prohibition Actions
FL	12,841	0
GA	3,270	684
KY	1,820	0
MS	1,075	32
NC	2,806	93
SC	3,581	333
TN	2,720	138
SUBTOTAL	31,312	1,431
FIVE		
IL	3,048	663
IN	1,755	0
MI	2,336	190
MN	2,053	14
OH	2,574	0
WI	4,224	201
SUBTOTAL	15,990	1,068
SIX		
AR	1,613	329
LA	1,482	9
NM	927	0
OK	4,440	0
TX	573	2,811
SUBTOTAL	9,035	3,149

The inspection and delivery prohibition action reporting period is from 10/1/08 through 9/30/09. Not all states fully implement delivery prohibition at this time. Some states prohibit deliveries on a per tank basis, while others prohibit per facility. In addition, some states prohibit deliveries based on significant compliance violations, while others prohibit based on registration violations.

* DNA = Data Not Available N/A = Not Applicable

**Inspection/Delivery Prohibition Actions
for End-of-Year FY 2009 (as of 9/30/09)**

Region/ State	Number of On-Site Inspections Conducted	Number of Delivery Prohibition Actions
SEVEN		
IA	656	6
KS	893	1,355
MO	1,720	2
NE	618	0
SUBTOTAL	3,887	1,363
EIGHT		
CO	1,986	0
MT	337	0
ND	587	0
SD	380	0
UT	822	9
WY	326	10
SUBTOTAL	4,438	19
NINE		
AS	0	0
AZ	917	0
CA	7,904	DNA
CNMI	73	0
GU	51	0
HI	446	0
NV	1,084	0
SUBTOTAL	10,475	0
TEN		
AK	159	135

Region/ State	Number of On-Site Inspections Conducted	Number of Delivery Prohibition Actions
ID	408	0
OR	629	58
WA	1,489	0
SUBTOTAL	2,685	193
INDIAN COUNTRY		
REGION 1	0	0
REGION 2	35	0
REGION 3	*N/A	*N/A
REGION 4	38	0
REGION 5	47	0
REGION 6	33	0
REGION 7	31	0
REGION 8	76	0
REGION 9	72	0
REGION10	47	0
SUBTOTAL	379	0
NATIONAL TOTAL		
National Total	95,675	7,380

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